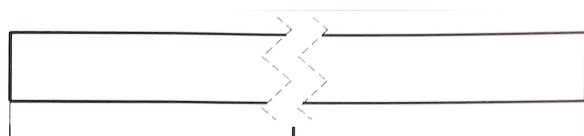


Dezhou Drillstar Cutting Tool Co.,Ltd manufactures cemented carbide blanks and hard metal tools ground to tolerances for different markets such as auto motives, aeronautics, mechanical engineering, packaging industry, plastic processing, communication, electronics, medical technology, food processing and chemical industry. Our cemented carbide grades are used in punching, die-cutting, forming and pressing tools, as slide rings, nozzles, bushings, guides, cutting and machining tools, for wear protection, and special tools.

We are skilled in son standard products. We also manufacture extruded round rods with and without holes. We produce T-slot milling cutter blanks and directly pressed cemented carbide disks. For standard products, we have an extensive finished goods warehouse with raw sintered and ground parts.

Some products at list photo.

DRILLSTAR tungsten carbide rods, as sintered and ground h6, L=330mm

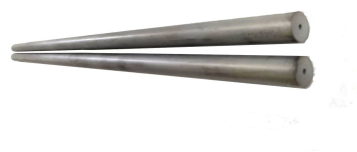
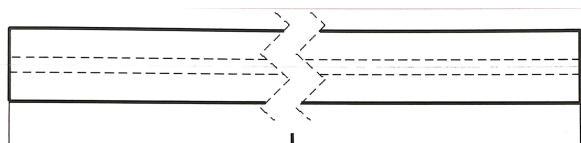


Dimension			As sintered				Ground			
As sinter mm	Ground mm	length mm	DX7	DX8UF	DX10	DX12UF	DX7	DX8UF	DX10	DX12UF
1.7	1.5	330			x				x	
2.2	2.0	330	x		x		x		x	
2.7	2.5	330	x		x				x	
3.2	3.0	330	x	x	x	x	x	x	x	x
3.7	3.5	330	x		x		x		x	
4.2	4.0	330	x	x	x	x	x		x	x
4.7	4.5	330			x				x	
5.2	5.0	330	x		x	x	x		x	x
5.7	5.5	330			x				x	
6.2	6.0	330	x	x	x	x	x		x	x
6.7	6.5	330	x		x		x		x	
7.2	7.0	330	x		x				x	
7.7	7.5	330			x				x	
8.2	8.0	330	x	x	x	x	x		x	x
8.7	8.5	330			x				x	
9.2	9.0	330	x		x				x	
9.7	9.5	330			x				x	
10.2	10.0	330	x	x	x	x	x		x	x
10.7	10.5	330			x				x	
11.2	11.0	330			x				x	
12.2	12.0	330	x	x	x	x	x		x	x
13.2	13.0	330	x		x		x		x	
14.2	14.0	330	x		x	x	x		x	x
15.2	15.0	330	x		x				x	
16.2	16.0	330	x	x	x	x	x		x	x
17.2	17.0	330			x				x	
18.2	18.0	330	x	x	x	x	x		x	x
19.2	19.0	330								
20.2	20.0	330	x		x	x	x		x	x
21.2	21.0	330			x				x	
22.2	22.0	330			x				x	
23.2	23.0	330			x				x	
24.2	24.0	330			x				x	
25.2	25.0	330			x	x			x	x
26.2	26.0	330			x				x	
28.2	28.0	330			x				x	
30.2	30.0	330			x				x	
31.2	31.0	330			x				x	
32.2	32.0	330			x				x	

X: delivery from stock, acc general conditions

Other: Special executions, grades or dimensions upon request

DRILLSTAR tungsten carbide rods with a straight hole, as sintered, L=330mm

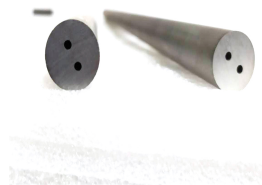
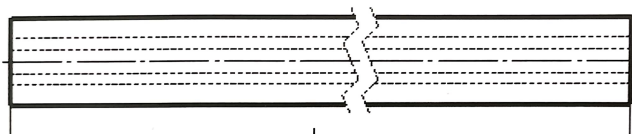


Dimension			As sintered stock
Out diameter mm	Hole diameter mm	Length mm	DX10
2.2	0.8	330	x
3.2	0.6	330	x
4.2	0.6	330	x
6.2	1.0	330	x
6.2	1.5	330	x
7.2	1.1	330	x
8.2	1.2	330	x
8.2	1.3	330	x
8.2	1.5	330	x
8.2	2.0	330	x
10.2	1.0	330	x
10.2	1.6	330	x
10.2	2.0	330	x
12.2	1.5	330	x
12.2	2.0	330	x
12.2	3.0	330	x
14.2	2.0	330	x
14.2	2.5	330	x
14.2	3.0	330	x
16.2	2.0	330	x
16.2	3.0	330	x
18.2	3.0	330	x
20.2	2.0	330	x
20.2	3.0	330	x
20.2	3.5	330	x
22.2	3.0	330	x
24.2	4.0	330	x
25.2	4.0	330	x
26.2	4.0	330	x
28.2	4.0	330	x
30.2	5.0	330	x
32.2	5.0	330	x

X: delivery from stock, acc general conditions

Other: Special executions, grades or dimensions upon request.

DRILLSTAR Tungsten carbide rods with 2 straight coolant holes, as sintered, L=330mm

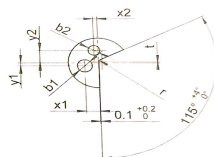
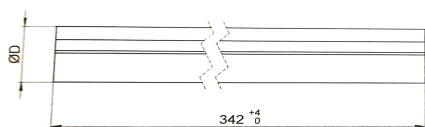


Dimension				Stock		Dimension				Stock
D mm	L mm	TK mm	D mm	DX10		D mm	L mm	TK mm	D mm	DX10
4.2	330	1.8	0.8	X		16.2	330	8.0	2.0	X
5.2	330	1.9	0.8	X		17.2	330	6.0	2.0	X
6.2	330	1.5	0.9	X		17.2	330	7.9	2.0	X
6.2	330	3.0	1.2	X		18.2	330	6.0	2.0	X
7.2	330	1.4	0.8	X		18.2	330	8.9	2.0	X
7.2	330	3.4	1.0	X		19.2	330	6.0	2.0	X
8.2	330	2.6	0.9	X		19.2	330	8.8	2.0	X
8.2	330	2.8	1.0	X		20.2	330	6.0	2.0	X
8.2	330	3.3	0.9	X		20.2	330	9.8	2.5	X
9.2	330	2.5	1.0	X		21.2	330	6.0	2.0	X
10.2	330	3.5	1.5	X		21.2	330	9.8	2.5	X
10.2	330	4.9	1.4	X		22.2	330	6.0	2.0	X
10.2	330	5.0	1.2	X		22.2	330	10.8	2.5	X
11.2	330	3.4	1.2	X		23.2	330	7.3	2.0	X
11.2	330	4.9	1.4	X		23.2	330	10.8	2.5	X
12.2	330	3.5	0.9	X		24.2	330	7.3	2.0	X
12.2	330	6.2	1.5	X		24.2	330	11.8	3.0	X
13.2	330	3.4	1.2	X		25.2	330	7.3	2.0	X
13.2	330	5.9	1.8	X		25.2	330	11.8	3.0	X
14.2	330	3.5	1.5	X		26.2	330	12.8	3.0	X
15.2	330	4.9	1.5	X		28.2	330	13.8	3.0	X
15.2	330	6.9	2.0	X		30.2	330	13.8	3.0	X
16.2	330	5.0	1.5	X		32.2	330	13.8	3.0	X
16.2	330	6.2	2.0	X		34.2	330	13.8	3.0	X

X: delivery from stock, acc general conditions

Other: Special executions, grades or dimensions upon request

DRILLSTAR Tungsten carbide gundrill blanks and inserts, as sintered

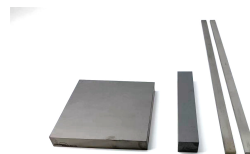
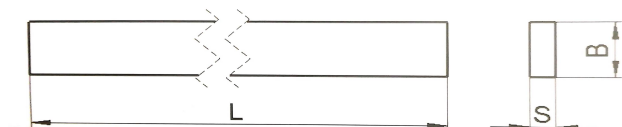


DRILLSTAR T. C. gun drill blanks			DRILLSTAR T. C. gun drill tips		
Dimension D*L	grade		Dimension D*L	grade	
	DF13	DX10		DF13	DX10
2.4*340mm					
3.5*340mm	x				
4.5*340mm					
5.5*340mm					
6.5*340mm					
7.0*342mm	x		7.0*35mm		
7.5*342mm	x		7.5*35mm		
8.0*342mm	x		8.0*35mm		
8.5*342mm	x		8.5*35mm		
9.0*342mm	x		9.0*35mm		
9.5*342mm	x		9.5*35mm		
10.0*342mm			10.0*35mm		
10.5*342mm	x		10.5*40mm		
11.0*342mm			11.5*40mm		
11.5*342mm	x		12.5*40mm		
12.0*342mm			13.5*40mm		
12.5*342mm	x		14.5*40mm		
13.0*342mm			15.5*40mm		
13.5*342mm	x		16.5*40mm		
14.0*342mm			17.5*40mm		
14.5*342mm	x		18.5*40mm		
15.0*342mm			19.5*45mm		
15.5*342mm	x		20.5*45mm		
16.0*342mm			21.5*45mm		
16.5*342mm	x		22.3*50mm	x	
17.0*342mm			23.3*50mm	x	
17.5*342mm	x		24.3*55mm	x	
18.0*342mm			25.3*55mm	x	
18.5*342mm	x		26.3*55mm	x	
19.0*342mm			27.3*55mm	x	
19.5*342mm	x		28.3*65mm	x	
20.0*342mm			30.3*65mm	x	
20.5*342mm	x		32.3*65mm	x	
21.5*342mm	x		33.3*65mm	x	

X: delivery from stock, acc general conditions

Other: Special executions, grades or dimensions upon request

DRILLSTAR Tungsten carbide flats and squares, in as sintered sizes, L=330mm

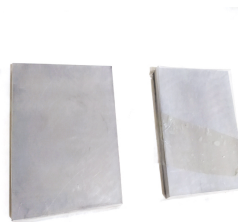
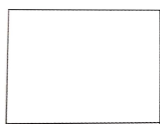


Dimension			Stock	
S mm	B mm	Gr.	DX7	DX10
1.3	3.3	21.2	X	X
	4.3	27.7	X	X
1.8	2.3	20.5	X	X
	3.3	29.4	X	X
	4.3	38.3	X	X
	5.3	47.2	X	X
	6.3	56.1	X	X
2.3	8.3	74.0	X	X
	10.3	91.8	X	X
	2.3	26.2		X
	3.3	37.6	X	X
	4.3	49.0	X	X
2.8	5.3	60.3	X	X
	6.3	71.7	X	X
	8.3	94.5	X	X
	10.3	117.3	X	X
	12.4	141.2	X	X
	15.4	175.3	X	X
	16.4	186.7	X	X
	18.4	209.5	X	X
	20.4	232.3	X	X
	25.4	289.2	X	X
3.3	4.3	59.6	X	X
	6.3	87.3	X	X
	8.3	115.0	X	X
	10.3	142.8	X	X
	12.4	171.9	X	X
	15.4	213.4	X	X
	3.3	53.9		X
3.3	4.3	70.2	X	X
	5.3	86.6	X	X
	6.3	102.9	X	X
	8.3	135.6	X	X
	10.3	168.3	X	X
	12.4	202.6	X	X
	13.4	218.9	X	X
	14.4	235.2	X	X
	16.4	267.9	X	X
	18.4	300.6	X	X
Dimension			Stock	
S mm	B mm	Gr.	DX7	DX10
3.3	20.4	333.2	X	X
	22.4	365.9	X	X
	25.4	414.9	X	X
	30.4	496.6	X	X
	32.4	529.3	X	X
4.3	4.3	91.5		X
	5.3	112.8	X	X
	6.3	134.1	X	X
	8.3	176.7	X	X
	10.3	219.2	X	X
	12.4	263.9	X	X
	14.4	306.5	X	X
	16.4	349.1	X	X
	18.4	391.6	X	X
	20.4	434.2	X	X
	22.4	476.8	X	X
	25.4	540.6	X	X
	30.4	647.1	X	X
	35.4	753.5	X	X
5.3	5.3	139.0		X
	8.3	217.8	X	X
	10.3	270.2	X	X
	15.4	404.0	X	X
	16.4	430.3	X	X
	18.4	482.7	X	X
	20.4	535.2	X	X
	22.4	587.7	X	X
	25.4	666.4	X	X
	30.4	797.5	X	X
6.3	35.4	928.7	X	X
	6.3	196.5	X	X
	16.4	511.4	X	X
	20.4	636.2	X	X
	25.4	792.1	X	X
	30.4	948.0	X	X
	35.4	1103.9	X	X
	8.3	341.0		X
8.3	10.3	525.1		X
12.4	12.4	761.1		X

X: delivery from stock, acc general conditions

Other: Special executions, grades or dimensions upon request

DRILLSTAR Tungsten carbide blocks

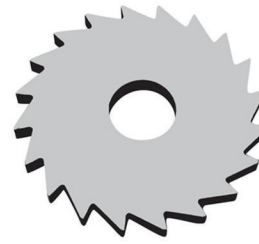
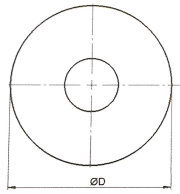


thickness (mm)	Width (mm)	Length (mm)	DX10	DX7	DX12	DF24	DCR17	DCR24
1.0	100	100				x		
4.0	100	100				x		
5.0	100	100	x			x		
6.0	100	100				x		
8.0	100	100	x	x	x			
10.0	100	100						
18.0	100	100						
20.0	100	100					x	x
40.0	100	100						
45.0	100	100				x		

X: delivery from stock, acc general conditions

Other: Special executions, grades or dimensions upon request

DRILLSTAR solid tungsten carbide slitting saws, as sintered



Dmm	d mm	s mm	Gr.	D mm	d mm	s mm	Gr.	Dmm	d mm	s mm	Gr.	D mm	d mm	s mm	Gr.
12.5	4.7	2.8	4.43	30.5	7.7	4.3	44.12	50.5	12.7	1.5	42.22	80.5	21.7	0.8	56.64
15.5		0.7	1.8	32.5		0.7	8.22			1.8	50.66			1	70.8
		1	2.57			0.9	10.57			2	56.29			1.3	92.03
		1.3	3.34			1	11.75			2.3	64.73			1.5	106.19
		1.5	3.86			1.2	14.09			2.6	73.18			1.8	127.43
		1.8	4.63			1.3	15.27			2.8	78.8			2.3	162.83
		2.1	5.4			1.5	17.62			3	84.43			2.5	176.99
		2.3	5.91			1.8	21.14			3.3	92.88			2.8	198.23
		2.8	7.2			2	23.49			3.8	106.95			3.3	233.63
		3.3	8.48			2.3	27.01			4.3	121.02			3.5	247.79
		0.7	3.28			2.5	29.36			6.3	177.31			4	283.18
20.5		0.9	4.22			2.8	32.89	70.5		0.8	35.68	100.5		4.3	304.42
		1	4.69			3.3	38.76			1	44.6			4.8	339.82
		1.2	5.63			3.5	41.11			1.3	57.98			1	113.44
		1.3	6.1			3.8	44.63			1.5	66.9			1.3	147.48
		1.5	7.04			4	46.98			1.8	80.28			1.5	170.16
		1.7	7.97			4.3	50.5			2.3	102.58			1.8	204.2
		2.1	9.85			4.5	52.85			2.8	124.88			2	226.89
		2.3	10.79			0.8	14.57			3	133.8			2.3	260.92
		3.3	15.48			1	18.22			3.3	147.18			2.5	283.61
		0.7	4.87	40.5	9.7	1.3	23.68	70.5		3.8	169.48	125.5		2.8	317.64
25.5		1	6.96			1.5	27.32			4.3	191.78			3.3	374.36
		1.3	9.05			1.8	32.79			4.8	214.08			3.5	397.05
		1.5	10.44			2.3	41.9			5.3	236.38			4.3	487.81
		1.8	12.53			2.8	51			6.3	280.98			1.1	198.01
		2.3	16.01			3	54.65			0.8	44.52	150.5		1.3	234.01
		3.3	22.97			3.3	60.11			1	55.65			1.5	270.01
		0.7	7.18			3.8	69.22			1.3	72.35			2.1	378.01
		0.9	9.23			4.3	78.33			1.8	100.17			2.3	414.01
		1	10.26			4.8	87.43			2.3	128			3.3	594.02
30.5	7.7	1.3	13.34			5.8	105.65	70.5		3.3	183.65	160.5	31.7	2.1	535.51
		1.8	18.47			6.3	114.76			1.3	95.47			2.3	586.51
		2	20.52			6.6	120.22			1.5	110.16			1.3	379.13
		2.3	23.6	50.5		0.8	23.15	80.5		1.8	132.19			1.5	437.46
		2.8	28.73			1	28.94			2.3	168.91			1.8	524.96
		3	30.78			1.8	52.08			2.8	205.63			2.1	612.45
		3.3	33.86			0.8	22.52			3.3	242.35			2.3	670.78
		3.5	35.91			1	28.14			6.3	462.67			2.8	816.6
		3.8	38.99			1.3	36.59			21.7	0.7	49.56		1.8	831.17
												200.5			

X: delivery from stock, acc general conditions

Other: Special executions, grades or dimensions upon request